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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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**1. Policy-Based Multi-Datacenter Resource Management**

Devarakonda, M.; Naik, V.K.; Rajamani, N.;  
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 06-08 June 2005 Page(s):247 - 250  
 Digital Object Identifier 10.1109/POLICY.2005.27  
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Carns, P.; Ross, R.; Ligon, W.; Wyckoff, P.;  
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IEEE CNF IEEE Conference Proceeding

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IEEE STD IEEE Standard

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## 1. Review of cooling technologies for computer products

Chu, R.C.; Simons, R.E.; Ellsworth, M.J.; Schmidt, R.R.; Cozzolino, V.;  
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 Volume 4, Issue 4, Dec. 2004 Page(s):568 - 585  
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[AbstractPlus](#) | [References](#) | Full Text: [PDE](#)(1976 KB) IEEE JNL

## 2. Natural convection air cooling characteristics of plate fins in a ventilated cabinet

Iwasaki, H.; Ishizuka, M.;  
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Kobayashi, T.; Ogushi, T.; Sumi, N.; Fujii, M.;  
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Jer-Huan Jang;  
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- ☐ 8. **Globalisation of software supply and demand**  
Jones, C.;  
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- ☐ 9. **Thermal design of an ultraslim notebook computer**  
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- ☐ 10. **Liquid nitrogen cooled CMOS**  
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- ☐ 11. **Terahertz research - the first thirty years (1895-1924)**  
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- ☐ 12. **The Alcator C-MOD control system**  
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- ☐ 13. **Thermal-aware clustered microarchitectures**  
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Vichare, N.; Rodgers, P.; Eveloy, V.; Pecht, M.G.;  
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- ☐ **16. Quantum gates with hot trapped ions**  
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- ☐ **17. System-level thermal management and concurrent system design of a w  
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IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Computer and telecommunications equipment room cooling: a review of**  
Schmidt, R.R.; Shaukatullah, H.;  
Components and Packaging Technologies, IEEE Transactions on [see also Cc  
Packaging and Manufacturing Technology, Part A: Packaging Technologies, IE  
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Volume 26, Issue 1, March 2003 Page(s):89 - 98  
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- ☐ 2. **An innovative technique for packaging power electronic building blocks i**  
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Haque, S.; Kun Xing; Ray-Lee Lin; Suchicital, C.T.A.; Guo-Quan Lu; Nelson, D  
Lee, F.C.;  
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- ☐ 3. **The very large array: Design and performance of a modern synthesis radi**  
Napier, P.J.; Thompson, A.R.; Ekers, R.D.;  
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- ☐ 5. **The conceivable accuracy of experimental and numerical thermal analys**  
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☐ **6. Electrothermal modeling and measurement for spatial power combining at millimeter wavelengths**

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McElroy, J.H.; McAvoy, N.; Johnson, E.H.; Degnan, J.J.; Goodwin, F.E.; Hendricks, J.;  
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Sikka, K.K.;  
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☐ **10. A high-power Ka-band quasi-optical amplifier array**

Ortiz, S.C.; Hubert, J.; Mirth, L.; Schlecht, E.; Mortazawi, A.;  
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☐ **12. A thermal benchmark chip: design and applications**

Szekely, V.; Marta, C.; Rencz, M.; Vegh, G.; Benedek, Z.; Torok, S.;  
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- ☐ **15. Trends in transportation sector technology energy use and greenhouse g**  
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- ☐ **22. Design and optimization of embedded power chip modules for double-si**  
Yin, J.; van Wyk, J.D.; Odendaal, W.G.; Liang, Z.;  
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- ☐ **23. Fluid flow and heat transfer characteristics of liquid cooled foam heat sir**  
Zhang, H.Y.; Pinjala, D.; Joshi, Y.K.; Wong, T.N.; Toh, K.C.; Iyer, M.K.;  
Thermal and Thermomechanical Phenomena in Electronic Systems, 2004. ITT-  
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- ☐ **24. International Space Station - a unique place for research**  
Uri, J.J.; Cooley, V.;  
Aerospace Conference, 2003. Proceedings. 2003 IEEE  
Volume 1, Mar 8-15, 2003 Page(s):1 - 91-100 vol.1  
Digital Object Identifier 10.1109/AERO.2003.1235044  
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- ☐ **25. Thermal management of portable micro fuel cell stacks**  
Hahn, R.; Krumm, M.; Reichl, H.;  
Semiconductor Thermal Measurement and Management Symposium, 2003. N  
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11-13 March 2003 Page(s):202 - 209  
Digital Object Identifier 10.1109/STHERM.2003.1194363  
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IEEE JNL. IEE Journal or Magazine

IEEE CNF. IEEE Conference Proceeding

IEEE CNF. IEE Conference Proceeding

IEEE STD. IEEE Standard

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☐ **1. Improving the efficiency of cooling systems in data centers considering characteristics**

Furihata, Y.; Hayama, H.; Enai, M.; Mori, T.; Kishita, M.;  
Telecommunications Energy Conference, 2004. INTELEC 2004. 26th Annual Int.  
19-23 Sept. 2004 Page(s):32 - 37  
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Real-Time Systems Symposium, 2003. RTSS 2003. 24th IEEE  
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Kang, S.; Schmidt, R.; Kelkar, K.M.; Radmehr, A.; Patankar, S.V.;  
Thermal and Thermomechanical Phenomena in Electronic Systems, 2000. IT-  
Seventh Intersociety Conference on  
Volume 1, 23-26 May 2000 Page(s):  
Digital Object Identifier 10.1109/ITHERM.2000.866828  
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- ☐ **2. Integrated power and cooling systems for Data Centers**  
Herold, K.E.; Radermacher, R.;  
Thermal and Thermomechanical Phenomena in Electronic Systems, 2002. IT-  
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30 May-1 June 2002 Page(s):808 - 811  
Digital Object Identifier 10.1109/ITHERM.2002.1012537  
[AbstractPlus](#) | Full Text: [PDF](#)(511 KB) IEEE CNF
- ☐ **3. Smart chip, system and data center enabled by advanced flexible cooling**  
Patel, C.D.; Bash, C.E.; Sharma, R.; Beitelmal, A.; Malone, C.G.;  
Semiconductor Thermal Measurement and Management Symposium, 2005 IE  
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Digital Object Identifier 10.1109/STHERM.2005.1412162  
[AbstractPlus](#) | Full Text: [PDF](#)(715 KB) IEEE CNF
- ☐ **4. Improving the efficiency of cooling systems in data centers considering characteristics**  
Furihata, Y.; Hayama, H.; Enai, M.; Mori, T.; Kishita, M.;  
Telecommunications Energy Conference, 2004. INTELEC 2004. 26th Annual In  
19-23 Sept. 2004 Page(s):32 - 37  
Digital Object Identifier 10.1109/INTLEC.2004.1401441  
[AbstractPlus](#) | Full Text: [PDF](#)(686 KB) IEEE CNF
- ☐ **5. Experimental investigation of design and performance of data centers**  
Sharma, R.; Bash, C.; Chandrakant Patel; Beitelmal, M.;  
Thermal and Thermomechanical Phenomena in Electronic Systems, 2004. IT-  
Ninth Intersociety Conference on  
1-4 June 2004 Page(s):579 - 585 Vol.1

- ☐ [AbstractPlus](#) | Full Text: [PDF\(702 KB\)](#) IEEE CNF
- ☐ 6. **Thermal considerations in cooling large scale high compute density data**  
Patel, C.D.; Sharma, R.; Bash, C.E.; Beitelmal, A.;  
Thermal and Thermomechanical Phenomena in Electronic Systems, 2002. ITHERM-2002. Eighth Intersociety Conference on  
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Digital Object Identifier 10.1109/ITHERM.2002.1012532  
[AbstractPlus](#) | Full Text: [PDF\(1046 KB\)](#) IEEE CNF
- ☐ 7. **A passive solution to a difficult data center environmental problem**  
Wang, D.;  
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1-4 June 2004 Page(s):586 - 592 Vol.1  
[AbstractPlus](#) | Full Text: [PDF\(989 KB\)](#) IEEE CNF
- ☐ 8. **Modeling of air conditioning systems for cooling of data centers**  
Anton, R.; Jonsson, H.; Palm, B.;  
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- ☐ 9. **A methodology for the design of perforated tiles in raised floor data center computational flow analysis**  
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Components and Packaging Technologies, IEEE Transactions on [see also Components and Packaging and Manufacturing Technology, Part A: Packaging Technologies, IEEE Transactions on]  
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- ☐ 10. **Designing an alternative to conventional room cooling**  
Stahl, L.; Belady, C.;  
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- ☐ 11. **Raised floor computer data center: effect on rack inlet temperatures of cold air both the hot and cold aisles**  
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- ☐ 13. **Power-aware QoS management in Web servers**

Sharma, V.; Thomas, A.; Abdelzaher, T.; Skadron, K.; Zhijian Lu;  
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IEEE CNF IEEE Conference Proceeding


IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ **1. Raised-floor data center: perforated tile flow rates for various tile layouts**  
Schmidt, R.; Karki, K.; Patankar, S.;  
Thermal and Thermomechanical Phenomena in Electronic Systems, 2004. IT-  
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1-4 June 2004 Page(s):571 - 578 Vol.1  
[AbstractPlus](#) | Full Text: [PDF](#)(927 KB) IEEE CNF
- ☐ **2. Power distribution for a cement plant expansion project**  
Costantiello, G.; Kandoth, B.;  
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- ☐ 7. **Computer aided optimization of advanced materials for liquid cooled printed boards and their use in telecommunications**  
Mehlhorn, T.; Topfer, M.; Kaulfersch, E.; Reichl, H.;  
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#### Accession number & update

3402844, D89001757; 890000.

#### Title

Coping with computer room **layout** changes.

#### Author(s)

Arcuri-P-S-Jr.

#### Source

Computers-in-Banking (USA), vol.6, no.4, p.26, April 1989.

#### CODEN

CBANE6.

#### ISSN

ISSN: 0742-6496.

#### Publication year

1989.

#### Language

EN.

#### Publication type

J Journal Paper.

#### Treatment codes

P Practical.

#### Abstract

**Data center** managers can design computer rooms without moving a single piece of equipment by using a special software package. The software, called The Graphic **Data Center** Manager from the Graphic Management Group in Valhalla, N.Y., enables you to make any desired changes in the **layout** of your **data center** on a PC screen. Besides speeding computer room **layout** changes this capability expedites solutions to computer room maintenance problems. For example, if **cooling** or air-conditioning equipment requires adjustment, it is a simple matter to call up a drawing of the appropriate system on the PC screen and pinpoint the location of the unit that may need attention. (0 refs).

#### Descriptors

DP-management; software-packages.

#### Keywords

software package; The Graphic **Data Center** Manager; computer room **layout** changes; maintenance.

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# 1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

# 2 [Will Moore's Law Be Sufficient?](#)

Erik P. DeBenedictis

 November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**
Full text available: [pdf\(518.77 KB\)](#)Additional Information: [full citation](#), [abstract](#)

It seems well understood that supercomputer simulation is an enabler for scientific discoveries, weapons, and other activities of value to society. It also seems widely believed that Moore's Law will make progressively more powerful supercomputers over time and thus enable more of these contributions. This paper seeks to add detail to these arguments, revealing them to be generally correct but not a smooth and effortless progression. This paper will review some key problems that can be solved wi ...

# 3 [Transistor level micro-placement and routing for two-dimensional digital VLSI cell synthesis](#)


Michael A. Riepe, Karem A. Sakallah

 April 1999 **Proceedings of the 1999 international symposium on Physical design**
Full text available: [pdf\(1.29 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

# 4 [Cosmology of the early universe viewed through the new infrastructure](#)

Jeremiah P. Ostriker, Michael L. Norman

 November 1997 **Communications of the ACM**, Volume 40 Issue 11

Full text available:  [pdf\(2.15 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**5 [Part 1: perspectives on reversible computing: Reversible logic for supercomputing](#)**

Erik P. DeBenedictis

May 2005 **Proceedings of the 2nd conference on Computing frontiers**Full text available:  [pdf\(401.79 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper is about making reversible logic a reality for supercomputing. Reversible logic offers a way to exceed certain basic limits on the performance of computers, yet a powerful case will have to be made to justify its substantial development expense. This paper explores the limits of current, irreversible logic for supercomputers, thus forming a threshold above which reversible logic is the only solution. Problems above this threshold are discussed, with the science and mitigation of global ...

**Keywords:** applications modeling, climate change global warming, computer architecture, quantum dot cellular automata, reversible logic, supercomputing

**6 [Routers with a single stage of buffering](#)**

Sundar Iyer, Rui Zhang, Nick McKeown


August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 32 Issue 4Full text available:  [pdf\(253.61 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most high performance routers today use combined input and output queueing (CIOQ). The CIOQ router is also frequently used as an abstract model for routers: at one extreme is input queueing, at the other extreme is output queueing, and in-between there is a continuum of performance as the speedup is increased from 1 to  $N$  (where  $N$  is the number of linecards). The model includes architectures in which a switch fabric is sandwiched between two stages of buffering. There is a rich and ...

**Keywords:** buffers, constraint sets, routers, switching

**7 [A general framework for visualizing abstract objects and relations](#)**


Tomihisa Kamada, Satoru Kawai

January 1991 **ACM Transactions on Graphics (TOG)**, Volume 10 Issue 1Full text available:  [pdf\(2.26 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Pictorial representations significantly enhance our ability to understand complicated relations and structures, which means that information systems strongly require user interfaces that support the visualization of many kinds of information with a wide variety of graphical forms. At present, however, these difficult visualization problems have not been solved. We present a visualization framework for translating abstract objects and relations, typically represented in textual forms, into p ...

**8 [VLSI cell placement techniques](#)**

K. Shahookar, P. Mazumder

June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2Full text available:  [pdf\(5.28 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

VLSI cell placement problem is known to be NP complete. A wide repertoire of heuristic




algorithms exists in the literature for efficiently arranging the logic cells on a VLSI chip. The objective of this paper is to present a comprehensive survey of the various cell placement techniques, with emphasis on standard cell and macro placement. Five major algorithms for placement are discussed: simulated annealing, force-directed placement, min-cut placement, placement by numerical optimization, a ...

**Keywords:** VLSI, floor planning, force-directed placement, gate array, genetic algorithm, integrated circuits, layout, min-cut, physical design, placement, simulated annealing, standard cell

9 Type-based hot swapping of running modules (extended abstract)

Dominic Duggan

October 2001 **ACM SIGPLAN Notices , Proceedings of the sixth ACM SIGPLAN international conference on Functional programming**, Volume 36 Issue 10

Full text available:  pdf(150.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While dynamic linking has become an integral part of the run-time execution of modern programming languages, there is increasing recognition of the need for support for hot swapping of running modules, particularly in long-lived server applications. The interesting challenge for such a facility is to allow the new module to change the types exported by the original module, while preserving type safety. This paper describes a type-based approach to hot swapping running modules. The approach is bas ...

**Keywords:** dynamic typing, hot swapping, module interconnection languages, shared libraries

10 Sensor networks and communication systems: Energy optimization techniques in cluster interconnects

E. J. Kim, K. H. Yum, G. M. Link, N. Vijaykrishnan, M. Kandemir, M. J. Irwin, M. Yousif, C. R. Das

August 2003 **Proceedings of the 2003 international symposium on Low power electronics and design**

Full text available:  pdf(286.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Designing energy-efficient clusters has recently become an important concern to make these systems economically attractive for many applications. Since the links and switch buffers consume the major portion of the power budget of the cluster, the focus of this paper is to optimize the energy consumption in these two components. To minimize power in the links, we propose a novel dynamic link shutdown (DLS) technique. The DLS technique makes use of an appropriate adaptive routing algorithm to shut ...

**Keywords:** buffer design, cluster interconnect, dynamic link shutdown, dynamic voltage scaling, energy optimization, link design, switch design

11 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1

Full text available:  pdf(1.65 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

12 The A to Z of SoCs

Reinaldo A. Bergamaschi, John Cohn

November 2002 **Proceedings of the 2002 IEEE/ACM international conference on Computer-aided design**

Full text available:  [pdf\(209.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The exploding complexity of new chips and the ever decreasing time-to-market window are forcing fundamental changes in the way systems are designed. The advent of Systems-on-Chip (SoC) based on pre-designed intellectual-property (IP) cores has become an absolute necessity for embedded systems companies to remain competitive. Designing an SoC, however, is extremely complex, as it encompasses a range of difficult problems in hardware and software design. This paper explains a wide range of SoC iss ...

13 User interface directions for the Web

Jakob Nielsen

January 1999 **Communications of the ACM**, Volume 42 Issue 1


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14 ICSE '99 conference daily newspaper: Window on the World

July 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 4

Full text available:  [pdf\(3.37 MB\)](#)


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15 News

Douglas Blank

September 2000 **intelligence**, Volume 11 Issue 3

Full text available:  [pdf\(663.92 KB\)](#)


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Additional Information: [full citation](#), [index terms](#)

16 GraphicsNet '95: integrated voice, video, graphics and data network using asynchronous transfer mode (ATM)

Marke Clinger

February 1996 **ACM SIGGRAPH Computer Graphics**, Volume 30 Issue 1

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Every year demonstrations at the SIGGRAPH conference push the envelope in state-of-the-art graphics. In 1995, SIGGRAPH also pushed the envelope in networking by deploying a conference-wide, production ATM network. GraphicsNet, the conference network, consisted of 400 Ethernet-over-ATM connections and 100 directly attached ATM devices. GraphicsNet was one of the largest ATM backbone networks deployed to date. Using the latest hardware and software available, GraphicsNet provided a switched intern ...

17 Wireless Andrew: building a high speed, campus-wide wireless data network

Bernard J. Bennington, Charles R. Bartel

January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

Full text available:  [pdf\(159.87 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** Andrew, WaveLAN, integration, wireless network

**18** Application defined processors

Dan Poznanovic

January 2005 **Linux Journal**, Volume 2005 Issue 129Full text available:  [html\(26.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Here's how a general-purpose Linux system gets a speed boost from reconfigurable logic.

**19** A Hybrid Architectural Style for Distributed Parallel Processing of Generic Data Streams



Alexandre R. J. Francois

May 2004 **Proceedings of the 26th International Conference on Software Engineering**Full text available:  [pdf\(250.47 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Immersive, interactive applications grouped under the concept of Immersipresence require on-line processing and mixing of multimedia data streams and structures. One critical issue seldom addressed is the integration of different solutions to technical challenges, developed independently in separate fields, into working systems, that operate under hard performance constraints. In order to realize the Immersipresence vision, a consistent, generic approach to system integration is needed, that is adapted ...

**20** Layout driven re-synthesis for low power consumption LSIs

Masako Murofushi, Takashi Ishioka, Masami Murakata, Takashi Mitsuhashi

June 1997 **Proceedings of the 34th annual conference on Design automation - Volume 00**Full text available:  [pdf\(183.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
 [Publisher Site](#)

A new technology re-mapping method named LDR (LayoutDriven Re-synthesis), which is applied after placement, is proposed. LDR executes re-mapping and re-placement simultaneously in order to minimize power consumption with placement information. High switching activity nets are concealed inside the re-mapped cells or are shortened by re-placement in LDR. To estimate power consumption, LDR uses static power estimator for combinational circuits. LDR also calculates wire capacitances accurately based on place ...

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1. ☐ **Integrating satellite remote sensing techniques for detection and analysis of uncontrolled coal seam fires in North China • ARTICLE**  
*International Journal of Coal Geology, Volume 59, Issues 1-2, 12 July 2004, Pages 121-136*  
 Stefan Voigt, Anke Tetzlaff, Jianzhong Zhang, Claudia Künzer, Boris Zhukov, Günter Strunz, Dieter Oertel, Achim Roth, Paul van Dijk and Harald Mehl  
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2. ☐ **The evolution of display technologies in PACS applications • ARTICLE**  
*Computerized Medical Imaging and Graphics, Volume 27, Issues 2-3, March-June 2003, Pages 175-184*  
 Minglin Li, David Wilson, Michael Wong and Albert Xthona  
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 Chris J. Peterson  
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4. ☐ **Hybrid nuclear reactors • REVIEW ARTICLE**  
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 H. Nifenecker, S. David, J. M. Loiseaux and A. Giorni  
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5. ☐ **An alternative synthesis of peptidyl  $\alpha$ -keto-2-oxazolines • ARTICLE**  
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 Derek Dunn and Sankar Chatterjee  
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6. **Synthesis, characterization and x-ray crystal structures of asymmetric bis**

- ☐ **(dialkyldithiocarbamates) of zinc: Potential precursors for ZnS deposition • ARTICLE**  
*Polyhedron, Volume 15, Issue 16, August 1996, Pages 2801-2808*  
Mahid Motevalli, Paul O'Brien, John R. Walsh and Ian M. Watson  
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7. ☐ **The advanced neutron source: Designing for science • ARTICLE**  
*Progress in Nuclear Energy, Volume 30, Issue 1, 1996, Pages 67-118*  
R. A. Brown, R. M. Harrington, J. B. Hayter, T. J. McManamy, D. L. Moses, F. J. Peretz,  
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1. ☐ **Airflow distribution through perforated tiles in raised-floor data centers • ARTICLE**  
*Building and Environment, In Press, Corrected Proof, Available online 31 May 2005,*  
Kailash C. Karki and Suhas V. Patankar  
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*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 541, Issues 1-2, 1 April 2005, Pages 323-331*  
F. Lebrun, J.-P. Roques, A. Sauvageon, R. Terrier, P. Laurent, O. Limousin, F. Lugiez and A. Claret  
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*Drug Discovery Today: Technologies, Volume 1, Issue 3, December 2004, Pages 247-252*  
Tom Solmajer and Jure Zupan  
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*Computer Fraud & Security, Volume 2004, Issue 10, October 2004, Pages 4-6*  
Eve Edelson  
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5. ☐ **An improved pneumatic sample transport system for measurement of activation cross-sections with d-D neutrons in the energy range between 2.1 and 3.1 MeV • ARTICLE**  
*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 527, Issue 3, 21 July 2004, Pages 543-553*  
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*International Journal of Coal Geology, Volume 59, Issues 1-2, 12 July 2004,  
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Mehmet Kanoglu  
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Andrew B. G. Bush  
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Robert Hall  
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*Physics of The Earth and Planetary Interiors, Volume 127, Issues 1-4, 1 December 2001,  
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Emile A. Okal  
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*Energy Conversion and Management, Volume 42, Issue 13, September 2001,  
Pages 1623-1635*  
Omar M. Al-Rabghi and Douglas C. Hittle  
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13. ☐ **Catastrophic wind damage to North American forests and the potential impact of climate change • ARTICLE**  
*The Science of The Total Environment, Volume 262, Issue 3, 15 November 2000,  
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Chris J. Peterson  
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Balqies Sadoun

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18. ☐ **Synthesis, characterization and x-ray crystal structures of asymmetric bis (dialkyldithiocarbamates) of zinc: Potential precursors for ZnS deposition • ARTICLE**

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Mahid Motevalli, Paul O'Brien, John R. Walsh and Ian M. Watson

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19. ☐ **Liquid crystal images of the transition from jet impingement convection to nucleate boiling part I: Monotonic distribution of the convection coefficient • ARTICLE**

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*Progress in Nuclear Energy, Volume 30, Issue 1, 1996, Pages 67-118*

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Michael J. Cerullo and Virginia Cerullo

[Abstract](#)

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*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 300, Issue*



2, 15 January 1991, Pages 312-320

J. R. Morales and L. O. Figueroa P. Martens J. L. Romero

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*Tectonophysics, Volume 150, Issue 3, 1 August 1988, Pages 253-348*  
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<input type="checkbox"/>	L9	L8 and layout and design\$	83
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PGPUB-DOCUMENT-NUMBER: 20030158718

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158718 A1

TITLE: Designing layout for internet datacenter cooling

PUBLICATION-DATE: August 21, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Nakagawa, Osamu Samuel</u>	Redwood City	CA	US	
Bash, Cullen	San Francisco	CA	US	
Patel, Chandrakant	Fremont	CA	US	
Beitelmal, Abdlmonem	Sacramento	CA	US	

US-CL-CURRENT: 703/13; 454/184

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw. De
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Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158718

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158718 A1

TITLE: Designing layout for internet datacenter cooling

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nakagawa, Osamu Samuel	Redwood City	CA	US	
Bash, Cullen	San Francisco	CA	US	
Patel, Chandrakant	Fremont	CA	US	
Beitelmal, Abdlmonem	Sacramento	CA	US	

US-CL-CURRENT: 703/13; 454/184

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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INTERNET	188796
INTERNETS	1145
DATACENTER?	0
DATACENTERS	33
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DATACENTER2	2
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PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050057847 A1

TITLE: Magazine-Based Library

PUBLICATION-DATE: March 17, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Armagost, Karl M.	Clearwater	FL	US	
Brace, Clark D.	Westminster	CO	US	
Christer, Marek W.	Loveland	CO	US	
Curtis, Christian C.	Thornton	CO	US	
Downey, Neal A.	Longmont	CO	US	
Guleff, Samuel J.	Superior	CO	US	
Heineman, Ray D.	Longmont	CO	US	
Kumpon, Peter J.	Denver	CO	US	
Permut, Ronald M.	Louisville	CO	US	
Pollard, Christopher A.	Monument	CO	US	
Roecker, David W.	Denver	CO	US	
Starr, Matthew T.	Lafayette	CO	US	
Sutherland, Lee A.	Hamilton	MT	US	
Thompson, Nathan C.	Boulder	CO	US	
Wadsworth, Edwin J.	Longmont	CO	US	
Woodruff, Jennifer L.	Erie	CO	US	

US-CL-CURRENT: 360/92

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D.
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Jan 13, 2005

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PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050007692 A1

TITLE: Magazine-Based Data Cartridge Library

PUBLICATION-DATE: January 13, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Thompson, Nathan C.	Boulder	CO	US	
Permut, Ronald M.	Louisville	CO	US	
Sutherland, Lee A.	Hamilton	MT	US	

US-CL-CURRENT: 360/93

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DOCUMENT-IDENTIFIER: US 20040264042 A1

TITLE: Magazine-Based Data Cartridge Library

PUBLICATION-DATE: December 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pollard, Christopher A.	Monument	CO	US	
Sutherland, Lee A.	Hamilton	MT	US	
Kulish, Christopher J.	Denver	CO	US	
Kulish, Christopher J.	Denver	CO	US	

US-CL-CURRENT: 360/92

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Drawings
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DOCUMENT-IDENTIFIER: US 20040264041 A1

TITLE: Magazine-Based Data Cartridge Library

PUBLICATION-DATE: December 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kumpon, Peter J.	Denver	CO	US	
Sutherland, Lee A.	Hamilton	MT	US	
Pollard, Christopher A.	Monument	CO	US	
Brace, Clark D.	Westminster	CO	US	

US-CL-CURRENT: 360/92; 369/30.43

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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DOCUMENT-IDENTIFIER: US 20040264040 A1

TITLE: Magazine-Based Data Cartridge Library

PUBLICATION-DATE: December 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Armagost, Karl M.	Clearwater	FL	US	
Wadsworth, Edwin J.	Longmont	CO	US	
Downey, Neal A.	Longmont	CO	US	
Curtis, Christian C.	Thornton	CO	US	
Starr, Matthew T.	Lafayette	CO	US	
Heineman, Ray D.	Longmont	CO	US	

US-CL-CURRENT: 360/92

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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DOCUMENT-IDENTIFIER: US 20040264039 A1

TITLE: Magazine-Based Data Cartridge Library

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## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Armagost, Karl M.	Clearwater	FL	US
Heineman, Ray D.	Longmont	CO	US
Wadsworth, Edwin J.	Longmont	CO	US
Downey, Neal A.	Longmont	CO	US
Curtis, Christian C.	Thornton	CO	US
Starr, Matthew T.	Lafayette	CO	US

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DOCUMENT-IDENTIFIER: US 20040264038 A1

TITLE: Magazine-Based Data Cartridge Library

PUBLICATION-DATE: December 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Heineman, Ray D.	Longmont	CO	US	
Guleff, Samuel J.	Superior	CO	US	

US-CL-CURRENT: 360/92

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PUBLICATION-DATE: December 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Downey, Neal A.	Longmont	CO	US	
Guleff, Samuel J.	Superior	CO	US	
Curtis, Christian C.	Thornton	CO	US	



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DOCUMENT-IDENTIFIER: US 20040223253 A1

TITLE: Magazine-Based Data Cartridge Library

PUBLICATION-DATE: November 11, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Woodruff, Jennifer L.	Erie	CO	US	
Permut, Ronald M.	Louisville	CO	US	
Thompson, Nathan C.	Boulder	CO	US	
Starr, Matthew T.	Lafayette	CO	US	
Pollard, Christopher A.	Monument	CO	US	
Christer, Marek W.	Loveland	CO	US	
Kumpon, Peter J.	Denver	CO	US	

US-CL-CURRENT: 360/92

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Da
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☐ 10. Document ID: US 20040107125 A1

L7: Entry 10 of 16

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040107125

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040107125 A1

TITLE: Business alliance identification in a web architecture

PUBLICATION-DATE: June 3, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Guheen, Michael F.	Tiburon	CA	US	
Mitchell, James D	Manhattand Beach	CA	US	
Barrese, James J.	San Jose	CA	US	

US-CL-CURRENT: 705/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 20040105187 A1

L7: Entry 11 of 16

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040105187

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040105187 A1

TITLE: Magazine-Based Data Cartridge Library

PUBLICATION-DATE: June 3, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Woodruff, Jennifer L.	Erie	CO	US	
Brace, Clark D.	Westminster	CO	US	
Permut, Ronald M.	Louisville	CO	US	
Roecker, David W.	Denver	CO	US	
Sutherland, Lee A.	Hamilton	CO	US	

US-CL-CURRENT: 360/92

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 6721713 B1

L7: Entry 12 of 16

File: USPT

Apr 13, 2004

US-PAT-NO: 6721713

DOCUMENT-IDENTIFIER: US 6721713 B1

TITLE: Business alliance identification in a web architecture framework

DATE-ISSUED: April 13, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F.	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 705/1; 709/223, 715/503

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 13. Document ID: US 6615166 B1

L7: Entry 13 of 16

File: USPT

Sep 2, 2003

US-PAT-NO: 6615166

DOCUMENT-IDENTIFIER: US 6615166 B1

TITLE: Prioritizing components of a network framework required for implementation of technology

DATE-ISSUED: September 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F.	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 703/27; 703/26, 709/220, 709/223, 709/231, 717/140, 719/316

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. D.
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☐ 14. Document ID: US 6536037 B1

L7: Entry 14 of 16

File: USPT

Mar 18, 2003

US-PAT-NO: 6536037

DOCUMENT-IDENTIFIER: US 6536037 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Identification of redundancies and omissions among components of a web based architecture

DATE-ISSUED: March 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 717/151; 703/2, 709/231

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. D.
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☐ 15. Document ID: US 6519571 B1

L7: Entry 15 of 16

File: USPT

Feb 11, 2003

US-PAT-NO: 6519571

DOCUMENT-IDENTIFIER: US 6519571 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Dynamic customer profile management

DATE-ISSUED: February 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F.	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 705/14

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw De
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☐ 16. Document ID: US 6473794 B1

L7: Entry 16 of 16

File: USPT

Oct 29, 2002

US-PAT-NO: 6473794

DOCUMENT-IDENTIFIER: US 6473794 B1

TITLE: System for establishing plan to test components of web based framework by displaying pictorial representation and conveying indicia coded components of existing network framework

DATE-ISSUED: October 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guheen; Michael F.	Tiburon	CA		
Mitchell; James D.	Manhattan Beach	CA		
Barrese; James J.	San Jose	CA		

US-CL-CURRENT: 709/223; 709/224

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw De
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Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Term	Documents
COOLING	607422
COOLINGS	209
(6 AND COOLING).PGPB,USPT.	16
(L6 AND COOLING ).PGPB,USPT.	16

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Blwd Refs
Generate OACS				

### Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 6468433 B1

L14: Entry 1 of 4

File: USPT

Oct 22, 2002

US-PAT-NO: 6468433

DOCUMENT-IDENTIFIER: US 6468433 B1

TITLE: Method for disinfecting liquids and gases and devices for use thereof

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tribelski; Zamir	Jerusalem			IL

US-CL-CURRENT: 210/748; 205/435, 250/432R, 250/435, 422/22, 422/4

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 2. Document ID: US 6318113 B1

L14: Entry 2 of 4

File: USPT

Nov 20, 2001

US-PAT-NO: 6318113

DOCUMENT-IDENTIFIER: US 6318113 B1

TITLE: Personalized air conditioned system

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Levy; Hans F.	Naples	FL	34103	
Betz; Peter G.	Naples	FL	34109	

US-CL-CURRENT: 62/426; 454/306, 62/419

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 3. Document ID: US 6305424 B1

L14: Entry 3 of 4

File: USPT

Oct 23, 2001

US-PAT-NO: 6305424

DOCUMENT-IDENTIFIER: US 6305424 B1

TITLE: System for supporting pipes in service galleries, especially in the nuclear industry

DATE-ISSUED: October 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Delouvee; Bernard	La Garenne-Colombes			FR
Potard; Philippe	Villepreux			FR

US-CL-CURRENT: 138/107; 138/106, 248/67.7, 248/68.1, 248/74.1, 248/74.4

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 4. Document ID: US 4989417 A

L14: Entry 4 of 4

File: USPT

Feb 5, 1991

US-PAT-NO: 4989417

DOCUMENT-IDENTIFIER: US 4989417 A

TITLE: Cold storage warehouse

DATE-ISSUED: February 5, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Markiewicz; Stanley	Henderson	NV	89015	

US-CL-CURRENT: 62/441; 62/407, 62/DIG.16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
COOLING	607422
COOLINGS	209
ROOM?	0
ROOMA	5
ROOMB	1
ROOMC	2